

CRATER RESOURCES
ADMINISTRATIVE RECORD FILE *
INDEX OF DOCUMENTS

I. SITE IDENTIFICATION

1. Report: Preliminary Assessment and Site Inspection of Crater Resources, Inc., prepared by NUS Corporation, 5/14/83. P. 100001-100069.
2. Report: Hazard Ranking System (HRS), Crater Resources, prepared by NUS Corporation, 8/26/91. P. 100070-100137. The following are attached:
 - a) a July 31, 1995, memorandum to National Priorities List (NPL) Coordinators from Mr. Robert Myers, U.S. EPA, transmitting the clarifications statement for each proposed and final NPL site and a request that the clarification statement be included in each NPL site HRS package;
 - b) a July 31, 1995, HRS notice for Crater Resources/Keystone Coke/Alan Wood NPL Site;
 - c) an undated NPL description of the Crater Resources, Inc./Keystone Coke Co./Alan Wood Steel Co. Site;
 - d) an August 28, 1991, HRS Documentation Record Cover Sheet;
 - e) an undated submittal sheet for the HRS final report.

* Administrative Record File available 5/25/99 updated 4/21/00 and 6/23/00.

II. REMEDIAL ENFORCEMENT PLANNING

1. Administrative Order On Consent In The Matter Of: Crater Resources, Inc. Site, Upper Merion Township, Montgomery County, Pennsylvania. Beazer East, Inc. (Beazer), Keystone Coke Company, Inc., and Vesper Corporation, Respondents, Docket No. III-94-42-DC, 8/30/94. P. 200001-200147. "Appendix #1," format for analytical results and "Appendix #2," guidance for PRP-conducted remedial investigations and feasibility studies, are attached.

III. REMEDIAL RESPONSE PLANNING

1. Memorandum to Mr. Fred MacMillan, U.S. EPA, from Ms. Jennifer Hubbard, U.S. EPA, re: Review of and comments on Analytical QA Report, 11/23/94. P. 300001-300001.
2. Report: Quality Assurance Project Plan (QAPP), Appendix A, Crater Resources Site, Upper Merion Township, PA, prepared by Environmental Resources Management, Inc. (ERM), 3/14/95. P. 300002-300272. A March 14, 1995, transmittal letter to Mr. Frederick MacMillan, U.S. EPA, from Mr. Richard Dulcey, ERM, is attached.
3. Report: Remedial Investigation/Feasibility Study Work Plan, Crater Resources Site, Upper Merion Township, PA, prepared by ERM, 11/17/95. P. 300273-300802. A November 17, 1995, letter to Mr. Frederick MacMillan, U.S. EPA, from Mr. Russell Devan, ERM, transmitting the final RI/FS Work Plan and a summary of the revisions.
4. Letter to Mr. Frederick MacMillan, U.S. EPA, from Mr. James Thomas, ERM, re: Transmittal of laboratory analysis of the monitoring well development/purge water currently stored at the Crater Resources Site, 7/24/96. P. 300803-300812. The following are attached:
 - a) a May 24, 1996, "Volatile Organics Analysis Data Sheet;"
 - b) a May 24, 1996, "Volatile Organics Analysis Data Sheet Tentatively Identified Compounds;"
 - c) a June 3, 1996, "Semivolatile Organics Analysis Data Sheet;"
 - d) a June 3, 1996, "Semivolatile Organics Analysis Data Sheet;"

- e) a June 3, 1996, "Semivolatile Organics Analysis Data Sheet Tentatively Identified Compounds;"
 - f) a May 28, 1996, "PEST/PCB Organics Analysis Data Sheet;"
 - g) a May 13, 1996, "Inorganic Analysis Data Sheet;"
 - h) a July 24, 1991, facsimile transmittal memorandum to Mr. Fred MacMillan, U.S. EPA, from Mr. James Thomas, ERM, transmitting a letter regarding the disposal of development/ purge water at the Crater Resources Site;
 - i) an August 21, 1996, facsimile transmittal memorandum to Mr. Chet Zazo, PADEP, from Mr. Fred MacMillan, U.S. EPA, transmitting purge water results and pond sediment results.
5. Letter to Mr. Fred MacMillan, U.S. EPA, from Mr. Russell Devan, ERM, re: Response to a request that the Crater Resources Potentially Responsible Parties (PRP) Group conduct a variety of investigations different from, and in addition to, those set forth in the approved Work Plan for the Remedial Investigation/Feasibility Study (RI/FS), 10/10/96. P. 300813-300829. The following are attached:
- a) an October 10, 1996, facsimile transmittal sheet to Mr. Fred MacMillan, U.S. EPA, from Mr. Russell Devan, ERM, transmitting a letter of response to comments from a September 26, 1996, letter and a September 1996 monthly activities report;
 - b) an October 10, 1996, letter to Mr. Fred MacMillan, U.S. EPA, from Mr. Russell Devan, ERM, transmitting a September 1996 project activities progress report;

- c) an undated table entitled, "Table 1: October 1996, Water Level Data, Crater Resources Site, Gulph Mills, Pennsylvania;"
 - d) an undated map entitled, "Figure 4: Off-Site Well Location Map, Crater Resources, Gulph Mills, Pennsylvania;"
 - e) an undated revised table entitled, "Table 2: Off-Site Well Inventory, Crater Resources RI/FS, Gulph Mills, PA;"
- 6. Memorandum to Mr. Fred MacMillan, U.S. EPA, from Mr. Bruce Rundell, U.S. EPA, re: Review of the PRP Groups response to EPA's Comments on round 1 remedial investigation results for the Crater Resources Site, 10/22/96. P. 300830-300831.
- 7. Letter to Mr. Steven Radel, Beazer, from Mr. Frederick MacMillan, U.S. EPA, re: EPA's response to PRP claims that additional work requested by the EPA increases and modifies the scope of the approved work plan, 4/22/97 P. 300832-300837.
- 8. Letter to Mr. Frederick MacMillan, U.S. EPA, from Mr. Richard Dulcey, ERM, re: Response to a request that Crater Resources PRP Group conduct additional field investigation tasks at the site, 5/2/97. P. 300838-300845. The following are attached:
 - a) a May 2, 1997, graph entitled, "RI/FS Phase 2 Schedule;"
 - b) an undated map entitled, "Figure 1: Site Map, Crater Resources Site, Gulph Mills, PA;"
 - c) a March 23, 1992, memorandum to Mr. Bruce Beitler and Mr. Steven Speece from Mr. Gary Brown, RT Environmental Services, Inc., transmitting the weekly construction status report for the school site project for the week of March 16, 1992;

- d) a June 1, 1992, memorandum to Mr. Bruce Beitler and Mr. Steven Speece from Mr. Gary Brown, RT Environmental Services, Inc., transmitting the weekly construction status report for the school site project for the week of May 25, 1992.
- 9. Memorandum to Mr. Fred MacMillan, U.S. EPA, from Mr. Bruce Rundell, U.S. EPA, re: Transmittal of a May 15, 1997 trip report, 5/19/97. P. 300846-300848. An undated map entitled, "Figure 1: Site Map, Crater Resources Site, Gulph Mills, PA" is attached.
- 10. Letter to Mr. Frederick MacMillan, U.S. EPA, from Mr. Russell Devan, ERM, re: Transmittal of ERM's Work Plan for excavation and removal of a pipe that was unearthed beneath Flint Hill Road, 5/21/97. P. 300849-300853. An undated figure entitled, "Figure 1: Site Location Map" is attached.
- 11. Letter to Mr. Frederick MacMillan, U.S. EPA, from Mr. Russell Devan, ERM, re: Request for an extension to prepare the Work Plan Amendment so that recent well monitoring information can be included, 5/30/97. P. 300854-300855.
- 12. Letter to Frederick MacMillan, U.S. EPA, from Mr. Robert McKinstry, Mr. Patrick Zaepfel, Mr. Robert Lucas, and Mr. Douglas Schleicher, Crater Resources PRP Group, re: Response to an April 22, 1997, letter regarding the scope of the work plan, 6/2/97. P. 300856-300863.
- 13. Memorandum to file from Mr. Gary Morton, U.S. EPA, re: Transmittal of information obtained during a June 2, 1997, interview with representatives from Crater Resources, 6/10/97. P. 300864-300865.
- 14. Letter to Mr. Frederick MacMillan, U.S. EPA, from Mr. Russell Devan, ERM, re: ERM's submittal of the work plan for disposal of the drums of drill cuttings, drilling mud, and disposable equipment

that were generated during the implementation of the remedial investigation at the Crater Resources Site, 6/20/97. P. 300866-300869. A June 20, 1997, facsimile transmittal memorandum to Mr. Fred MacMillan, U.S. EPA, from Mr. Russell Devan, ERM, is attached.

15. Letter to Mr. Robert Norman, Director of Public Works, Upper Merion Township, from Mr. Frederick MacMillan, U.S. EPA, re: Update on the exposed pipe at the intersection of Flint Hill and Viking Roads in Upper Merion Township and suggested precautions for continued work on the drainage system, 7/2/97. P. 300870-300872.
16. Letter to Mr. Frederick MacMillan, U.S. EPA, from Mr. Russell D. Devan, ERM, re: Notification of an unavoidable delay in implementation of the off-site well sampling task at the Crater Resources Site, 8/19/97. P. 300873-300874.
17. Letter to Ms. Yvette Hamilton-Taylor, U.S. EPA, Mr. Robert McKinstry, Mr. Douglas Schleicher, and Mr. Robert Lucas, Ballard, Spahr, Andrews and Ingersoll, re: Notification of a delay in implementation of the second phase of the RI/FS caused by a force majeure event, 8/22/97. P. 300875-300879.
18. Letter to Mr. Russell Devan, ERM, from Mr. Frederick MacMillan, U.S. EPA, re: Documentation of an August 26, 1997, meeting regarding the progress of work for the second phase of the RI/FS, 9/4/97. P. 300880-300883. A September 2, 1997, map is attached.
19. Letter to Ms. Yvette Hamilton-Taylor, U.S. EPA, from Mr. Joseph McGovern, Obermayer, Rebmann, Maxwell & Hippel, re: Clarification of statements made by Mr. McKinstry in his September 19, 1997, letter to the EPA regarding access to the Crater Resources Site, 9/26/97. P. 300884-300885.
20. Letter to Mr. Frederick MacMillan, U.S. EPA, from Mr. David Kennedy, Pennsylvania Department of Environmental Protection (PADEP), re: Disposal of waste drill cuttings and stored water at the Crater Resources Site, 10/3/97. P. 300886-300886.

21. Letter to Mr. Frederick MacMillan, U.S. EPA, from Mr. Russell Devan and Richard Dulcey, ERM, re: Transmittal of recently collected water levels from existing on-site monitoring wells, nearby off-site wells, and four newly installed monitoring wells and an analysis of this data, 10/30/97. P. 300887-300891. An undated table entitled, Table 1: Ground Water Elevations, Crater Resources Site, Upper Merion Township, Pennsylvania," and an October 27, 1997, figure entitled, "Figure 1: Potentiometric Surface Map, 20 October 1997, Crater Resources Site, Upper Merion Township, PA," are attached.
22. Letter to Mr. Frederick MacMillan, U.S. EPA, from Mr. Russell Devan, ERM, re: Notification of a force majeure delay for implementation of the off-site well sampling task at the Crater Resources Site and notification of a second force majeure event regarding access to the Triad Building for the installation of well nest MW-14, 10/31/97. P. 300892-300893.
23. Report: Work Plan to Implement Site Investigation Activities on Lots 14 through 29 (Pink Parcel) in the Renaissance Commercial Development, Upper Merion Township, Montgomery County, PA, prepared by Penn Environmental and Remediation, Inc. (Penn E&R), 11/20/97. P. 300894-300906. A November 21, 1997, transmittal letter to Mr. Frederick MacMillan, U.S. EPA, from Mr. Michael Christie, Penn E&R, is attached.
24. Letter to Mr. Paul Noll, SmithKline Beecham Corporation, from Mr. Eugene Dennis, U.S. EPA, re: Request for access to the water monitoring wells located at the SmithKline Beecham Research and Development facility, 11/25/97. P. 300907-300909.
25. Letter to Mr. Steven Radel, Beazer, from Mr. Frederick MacMillan, U.S. EPA, re: Notification of a change in EPA Remedial Project Manager from Mr. Frederick MacMillan to Mr. Eugene Dennis, 11/26/97. P. 300910-300911.

26. Letter to Mr. Thomas Jackson, Kelly, Drye & Warren, from Ms. Yvette Hamilton-Taylor, U.S. EPA, re: Request for access to the "Triad property" for EPA and/or its authorized representatives for the purpose of installing a ground water monitoring well, 1/9/98. P. 300912-300914. A January 9, 1998, federal express receipt is attached.
27. Letter to Mr. Eugene Dennis, U.S. EPA, from Mr. Kevin Kilmartin, Brown & Root Environmental, re: Transmittal of a December 30, 1997, trip report for the oversight and split-sampling of groundwater monitoring wells at the Crater Resources Site, 1/14/98. P. 300915-300916.
28. Letter to Mr. Eugene Dennis, U.S. EPA, from Mr. Michael Christie, Penn E&R, re: Notification that Penn E&R is implementing specific site investigations on the Yellow and Pink Parcels in the Renaissance Park Commercial Development for Liberty Property Trust as part of its potential purchase of the site, 2/6/98. P. 300917-300919. A February 2, 1998, draft figure entitled, "Figure 1: Anticipated Location of Buried Pipeline on the Pink and Yellow Parcels, Upper Merion Township, Montgomery County, Pennsylvania," is attached.
29. Letter to Mr. Eugene Dennis, U.S. EPA, from Mr. Michael Christie, Penn E&R, re: Results of the removal of the pipeline from beneath the pink tract in the Renaissance Park Commercial Development in Upper Merion Township, Montgomery County, PA, 3/2/98. P. 300920-301177. The following are attached:
- a) a February 26, 1998, figure entitled, "Figure 1: Pipeline Removal Investigation Pink Tract;"
 - b) an undated table entitled, "Table 1: Summary of Analytical Results for Post-Excavation Soil Samples Collected Beneath the Former Pipeline Located on the Pink

Parcel;"

- c) "Appendix A," an Emert Recycling Corp. invoice;
 - d) "Appendix B," a Contract Laboratory Program (CLP) Data Package.
30. Letter to Mr. Eugene Dennis, U.S. EPA, from Mr. Kevin Kilmartin, Brown & Root Environmental, re: Transmittal of a technical review and evaluation of the analytical data for the split-sampling of ground water monitoring wells for Crater Resources RI/FS, 3/4/98. P. 301178-301181. A March 4, 1998, table entitled, "Table 1: Inorganic Analytical Sample Results for Groundwater, Crater Resources RI/FS Oversight - Split Sampling Event of December 1997/January 1998," and a March 4, 1998, table entitled, "Table 2: Volatile Organic Compound (VOC), Analytical Sample Results for Groundwater, Crater Resources RI/FS Oversight - Split Sampling Event of December 1997/January 1998," are attached.
31. Letter to Mr. Thomas Mellott, PADEP, from Mr. Russell Devan, ERM, re: Notification that Crater Resources PRP Group is in the process of soliciting bids from waste disposal facilities for off-site disposal of the drums in order to meet PADEP's request that the drums be removed as soon as possible, 3/16/98. P. 301182-301183.
32. Memorandum to Ms. Yvette Hamilton-Taylor, U.S. EPA, from Mr. Eugene Dennis, U.S. EPA, re: Update on the remedial investigation at the Crater Resources Site, 3/19/98. P. 301184-301184.
33. Letter to Mr. Eugene Dennis, U.S. EPA, from Mr. Russell Devan, ERM, re: Request for a 60-day extension for submission of the RI report due to lack of accessibility for the installation of well nest 14, 3/23/98. P. 301188-301188. A March 23, 1998, graph entitled, "Project Schedule: Crater Resources Phase 2 RI/FS," is attached.
34. Letter to Mr. Steven Radel, Beazer, from Mr. Peter Schaul, U.S. EPA, re: Notification that the request

for a 60-day extension for submission of the draft RI/FS is denied, 3/30/98. P. 301185-301187.

35. Letter to Mr. Eugene Dennis, U.S. EPA, from Mr. Michael Christie, ERM, re: Transmittal of requested analytical data generated as part of recent sampling on the yellow parcel, 4/2/98. P. 301189-301204. The following are attached:

- a) an undated table entitled, "Table 1: Summary of Analytical Results for Samples Collected at Fill/Dump Areas A & C;"
- b) an undated table entitled, "Table 2: Summary of Analytical Results for Surface Soil Samples Collected Along the Pipe Line on the Yellow Parcel;"
- c) an undated table entitled, "Table 3: Summary of Analytical Results for Soil Samples Obtained Beneath the Pipe Line on the Yellow Parcel;"
- d) an undated table entitled, "Table 4: Summary of Analytical Results for Sample YUP-10 taken under the Pipe Line on the Yellow Parcel;"
- e) an undated table entitled, "Table 5: Summary of Analytical Results for Sediment Samples taken at the LPT Yellow Parcel;"
- f) an undated table entitled, "Table 6: Summary of Analytical Results for Samples Collected in Quarry #4;"
- g) a February 17, 1998, figure entitled, "Figure 2: Site Layout Map of the Yellow

Parcel Showing Sample Locations;"

- h) a February 17, 1998, figure entitled, "Figure 1: Site Layout Map of the Yellow Parcel Showing Fill/Dump Area."
36. Letter to Mr. Eugene Dennis, U.S. EPA, from Mr. Richard Dulcey, ERM, re: Request to perform the risk assessment at the Crater Resources Site, 4/2/98. P. 301205-301235. The following are attached:
- a) "Attachment 1," ERM Risk Assessment Qualifications and Experience on Representative Superfund Projects;
 - b) "Attachment 2," Professional Profiles;
 - c) a June 9, 1994, letter to Ms. Maria Matteo, Klehr, Harrison, Harvey, Bransburg & Ellers, from Ms. Yvette Hamilton-Taylor, U.S. EPA, concerning the PRP Group's request to conduct the risk assessment in conjunction with the RI/FS;
 - d) a May 10, 1994, letter to Dr. Roy Smith, U.S. EPA, from Ms. Maria Matteo, Klehr, Harrison, Harvey, Bransburg & Ellers, requesting permission for the PRP Group to perform the risk assessment.
37. Letter to Mr. Eugene Dennis, U.S. EPA, from Mr. Richard Dulcey, ERM, re: Request to perform the risk assessment at the Crater Resources Site, 4/15/98. P. 301236-301252. An undated table entitled, "ERM Risk Assessment Qualifications and Experience on Superfund Projects U.S. EPA Regions II, III, IV," and "Attachment 2, Professional Profiles," are attached.
38. Report: Work Plan to Complete Additional Site Characterization Activities and to Remove a Buried

Pipeline at the Yellow Parcel in the Renaissance Park Commercial Development, prepared by Penn E&R, 6/25/98. P. 301253-301277.

39. Letter to Mr. Abraham Ferdas, U.S. EPA, from Mr. William Giarla, Beazer, re: Response to EPA's denial of ERM's request to perform the site risk assessment for the Crater Resources Site, 7/31/98. P. 301278-301279.
40. Letter to Mr. Abraham Ferdas, U.S. EPA, from Mr. William Giarla, Beazer, re: Follow-up to correct a mistake made in a July 31, 1998, letter, 11/5/98. P. 301280-301281.
41. Letter to Mr. Richard Dulcey, ERM, from Mr. Abraham Ferdas, U.S. EPA, re: Response to a request for ERM to conduct the risk assessment at the Crater Resources Site, (undated). P. 301282-301283.

42. Report: Environmental Risk Assessment, Proposed Vanguard Site, Renaissance Boulevard, Upper Merion Township, Montgomery County, Pennsylvania, prepared by Walter Satterthwaite Associates, Inc., 2/7/90. P. 301284-301493. The following are attached:
- a) a February 14, 1990, letter to Mr. Gene Mazek, Pasquale Real Estate, from Mr. Walter Satterthwaite, Walter Satterthwaite Associates, Inc., transmitting the environmental risk assessment;
 - b) a September 22, 1998, letter to Mr. Russ Devan, ERM, from Ms. Samantha Corson, Ballard, Spahr, Andrews & Ingersoll, transmitting the Satterthwaite Associates reports;
 - c) a September 24, 1998, letter to Ms. Andrea Lord, U.S. EPA, from Mr. Russell Devan, ERM, transmitting the Satterthwaite Associates reports;
 - d) an undated report entitled, "Pasquale Real Estate, Environmental Risk Assessment, For Proposed Cigna Office Complex, Located in Upper Merion Township," prepared by Walter Satterthwaite Associates, Inc.
43. Letter to Mr. Russ Devan, ERM, from Ms. Andrea Lord, U.S. EPA, re: Comments from an August 6, 1998, letter on the draft remedial investigation report, 9/9/98. P. 301494-301496.
44. Letter to Ms. Andrea Lord, U.S. EPA, from Mr. Russell Devan, ERM, re: Summary of the historical analytical data from the Upper Merion Reservoir, 12/3/98. P. 301497-301508. An undated data package entitled, "Historic Ground Water Analytical Results, Upper Merion Reservoir, Upper Merion Township, Pennsylvania," an undated site map entitled, "Figure 1, Location of Historic Ground Water Analytical Data, Crater Resources Site, Upper Merion Township, Pennsylvania," and an undated site map entitled, "Distribution of Key Indicator Parameters in Ground Water," are attached.

45. Draft Report: Summary of Site Investigation Reports, prepared by Walter B. Satterthwaite Associates, Inc., 12/8/98. P. 301509-301655.
46. Letter to Ms. Andrea Lord, U.S. EPA, from Mr. Russell Devan, ERM, re: Transmittal of the Revised Second Work Plan Amendment to the Crater Resources RI/FS Work Plan, 12/23/98. P. 301656-301665.
47. Letter to Mr. Russ Devan, Environmental Resources Management (ERM), from Ms. Andrea Lord, U.S. EPA, re: Notification of EPA approval of the Summary of Site Investigation Reports, 12/29/98. P. 301666-301666.
48. Letter to Mr. Russ Devan, ERM, from Ms. Andrea Lord, U.S. EPA, re: Notification of EPA's approval of the revised RI/FS Work Plan Amendment Two for the Crater Resources Site, 12/30/98. P. 301667-301667.
49. Letter to Ms. Andrea Lord, U.S. EPA, from Mr. Russell Devan, ERM, re: Comments on the ecological risk assessment to be performed at the Crater Resources Site, 1/22/99. P. 301668-301671.
50. Letter to Ms. Andrea Lord, U.S. EPA, from Mr. Kevin Kilmartin, Tetra Tech NUS, Inc., re: Transmittal of a January 1999, trip report for the split-sampling of additional soil samples at the Crater Resources Site, 2/1/99. P. 301672-301677. The trip report is attached.
51. Letter to Mr. Rich Dulcey, ERM, from Ms. Andrea Lord, U.S. EPA, re: Comments on the selection of the Henderson Road School well as the background groundwater well for the Crater Resources Site, 2/2/99. P. 301678-301678.
52. Letter to Mr. Russ Devan, ERM, from Ms. Andrea Lord, U.S. EPA, re: EPA's response to the ecological risk assessment scope of work (SOW) for the Crater Resources Site, 3/10/99. P. 301679-301683. A March 10, 1999, transmittal memorandum to Mr. Rich Dulcey, ERM, from Ms. Andrea Lord, U.S. EPA, and a March 10,

1999, transmittal memorandum to Mr. Russ Devan, ERM, from Ms. Andrea Lord, U.S. EPA, are attached.

53. Draft Report: Soil Samples Collected, 11 January 1999 through 21 January 1999, prepared by ERM, 3/16/99. P. 301684-301718.
54. Letter to Ms. Andrea Lord, U.S. EPA, from Mr. Donald Knorr, ERM, re: Response to comments on the proposed SOW for the ecological risk assessment for the Crater Resources Site, 4/15/99. P. 301719-301721.
55. Memorandum to Mr. Fredrick Foreman, U.S. EPA, from Mr. Douglas Gardner and Mr. Mahboobeh Mecanic, Lockheed Martin Environmental Services, re: Transmittal of the Level C2 Organic Data Validation for Case 26746, 4/14/99. P. 301722-301787. An April 21, 1999, transmittal memorandum to Ms. Andrea Lord, U.S. EPA, from Mr. Fredrick Foreman, U.S. EPA, is attached.
56. Memorandum to Mr. Fredrick Foreman, U.S. EPA, from Mr. Mahboobeh Mecanic and Mr. Kenneth Curry, Lockheed Martin Environmental Services, re: Transmittal of the Inorganic Data Validation (IM2 Level), 4/16/98. P. 301788-301833. An April 22, 1999, transmittal memorandum to Ms. Andrea Lord, U.S. EPA, from Mr. Fredrick Foreman, U.S. EPA, is attached.
57. Report: Remedial Investigation Report, Volume I, Crater Resource Site, prepared by ERM, 6/4/99. P. 301834-302209. An April 12, 1999, transmittal letter to Ms. Andrea Lord, U.S. EPA, from Mr. Russell Devan, ERM, is attached.
58. Report: Remedial Investigation Report, Volume II, Crater Resources Site, prepared by ERM, 6/4/99. P. 302210-303233.
59. Letter to Mr. Rich Dulcey, ERM, from Ms. Andrea Lord, U.S. EPA, re: Notification of EPA's approval of the remedial investigation report for the Crater

Resources Site, 6/23/99. P. 303234-303234.

60. Report: Final Baseline Risk Assessment, Crater Resources Site, Upper Merion Township, Montgomery County, Pennsylvania, Volume I, prepared by Tetra Tech NUS, Inc., 12/99. P. 303235-303614.
61. Report: Final Baseline Risk Assessment, Crater Resources Site, Upper Merion Township, Montgomery County, Pennsylvania, Volume II, prepared by Tetra Tech NUS, Inc., 12/99. P. 303615-304061.
62. Report: Final Baseline Risk Assessment, Crater Resources Site, Upper Merion Township, Montgomery County, Pennsylvania, Volume III, prepared by Tetra Tech NUS, Inc., 12/99. P. 304062-304426.
63. Report: Final Baseline Risk Assessment, Crater Resources Site, Upper Merion Township, Montgomery County, Pennsylvania, Volume IV, prepared by Tetra Tech NUS, Inc., 12/99. P. 304427-304901.
64. Letter to Ms. Ruth Baker, ERM, from Mr. David Minsker, PADEP, re: PADEP's position on discharging untreated contaminated groundwater, 1/18/00. P. 304902-304902.
65. Letter to Ms. Andrea Lord, U.S. EPA, from Mr. Russell Devan, ERM, re: Transmittal of section 4 of the Crater Resources Remedial Investigation (RI) Report, 3/31/00. P. 304903-304934. Section 4 of the report, is attached.
66. Letter to Mr. Kevin Kilmartin, Tetra Tech NUS, from Ms. Andrea Lord, U.S. EPA, re: Transmittal of revised draft feasibility study for the Crater Resources Site, 4/5/00. P. 304935-304935.
67. Letter to Mr. Robert McKinstry, Ballard, Spahr, Andrews & Ingersoll, from Mr. Abraham Ferdas, U.S. EPA, re: Notification that EPA will modify and subsequently approve the revised draft feasibility study, 4/20/00. P. 304936-304938.

68. Letter to Ms. Andrea Lord, U.S. EPA, from Mr. David Minsker, PADEP, re: Comments on the revised draft feasibility study for the Crater Resources Site, 4/25/00. P. 304939-304939.
69. Report: Remedial Action Completion Report For the Removal of Buried Pipes Located At The Yellow Parcel In The Renaissance Park Commercial Development, Upper Merion Township, Montgomery County, PA, prepared by Penn E & R, Inc., 5/5/00. P. 304940-305178. A May 5, 2000, transmittal letter to Ms. Andrea Lord, U.S. EPA, from Mr. Michael Christie, Penn E & R Inc., is attached.
70. Report: Revised Draft Feasibility Study for the Crater Resources Site, Upper Merion Township, Montgomery County, Pennsylvania, prepared by ERM, 2/29/00. P. 305179-305479.
71. Memorandum to file, from Ms. Andrea Lord, U.S. EPA, re: EPA's addendum to the revised draft feasibility study for the Crater Resources Site, 6/16/00. P. 305480-305522. The following are attached:
- a) A May 24, 2000, letter to Ms. Andrea Lord, U.S. EPA, from Mr. Kevin Kilmartin, Tetra Tech NUS, transmitting costing analysis of PRP's remedial alternatives for the Crater Resources Site;
 - b) A May 24, 2000, capital cost analysis for Alternative S-3: Soil Cover;
 - c) A May 24, 2000, present worth analysis for Alternative S-3: Soil Cover;
 - d) A May 24, 2000, capital cost analysis for Alternative S-4: Low-Permeability Capping;

- e) A May 24, 2000, present worth analysis for Alternative S-4: Low-Permeability Capping;
- f) A May 24, 2000, capital cost analysis for Alternative S-4A: Quarry 3 Sediment Removal/Off-Site Processing and Low-Permeability Capping;
- g) A May 24, 2000, present worth analysis for Alternative S-4A: Quarry 3 Sediment Removal/Off-Site Processing and Low-Permeability Capping;
- h) A May 24, 2000, capital cost analysis for Alternative S-4A-1: Quarry 3 Sediment Removal/Off-Site Processing and Low-Permeability Capping;
- i) A May 24, 2000, present worth analysis for Alternative S-4A-1: Quarry Sediment Removal/Off-Site Processing and Low-Permeability Capping;
- j) A May 24, 2000, capital cost analysis for Alternative S-4B: Quarry 3 Sediment Stabilization and Low-Permeability Capping;
- k) A May 24, 2000, permanent worth analysis for Alternative S-4B: Quarry 3 Sediment Stabilization and Low-Permeability Capping;
- l) A May 24, 2000, capital cost analysis for Alternative S-5: Quarry 3 Removal/Off Site Processing and Low-Permeability Capping;
- m) A May 24, 2000, permanent worth analysis for Alternative S-5: Quarry 3 Removal/Off Site Processing and Low-Permeability Capping;
- n) A May 24, 2000, capital cost analysis for Alternative S-5-1: Quarry 3 Removal/Off-Site Disposal and Low-Permeability Capping;

- o) A May 24, 2000, permanent worth analysis for Alternative S-5-1: Quarry 3 Removal/Off-Site Disposal and Low-Permeability Capping;
- p) A May 24, 2000, capital cost analysis for Alternative S-6: Complete Removal/Off-Site Processing;
- q) A May 24, 2000, capital cost analysis for Alternative S-6-1: Complete Removal/Off-Site Disposal;
- r) A March 17, 2000, memorandum to Ms. Andrea Lord, U.S. EPA, from Ms. Jennifer Hubbard, U.S. EPA, regarding comments on the revised Crater Resources Feasibility Study;
- s) A March 27, 2000, memorandum to Ms. Andrea Lord, U.S. EPA, from Mr. Bruce Rundell, U.S. EPA, regarding the Hydro-Geologic review of the revised feasibility study for the Crater Resources Site.

72. Proposed Plan, Crater Resources Site, 6/00.
P. 305523-305550.

IV. REMOVAL RESPONSE PROJECTS

1. Memorandum to file and Ms. Yvette Hamilton, U.S. EPA, from Ms. Andrea Lord, U.S. EPA, re: Review of soil sampling results by EPA and determination that the soils do not constitute a removal action because there is no imminent and/or substantial endangerment, 7/1/98. P. 400001-400001.

V. COMMUNITY INVOLVEMENT/CONGRESSIONAL
CORRESPONDENCE/IMAGERY

1. U.S. EPA Fact Sheet, re: Site Background and Location, Crater Resources Inc. Site, Upper Merion Township, PA, 4/99. P. 500001-500004.
2. U.S. EPA Fact Sheet, re: Public Availability Session, Crater Resources Inc. Site, Upper Merion Township, PA, 8/99. P. 500005-500008.
3. U.S. EPA Fact Sheet, re: EPA Addresses Community Concerns, Crater Resources Inc. Site, 4/00. P. 500009-5000010.